



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

INDEX

NAMES OF CONTRIBUTORS ARE PRINTED IN SMALL CAPITALS

Age, Mean, at Marriage of Men and Women, Variation and Correlation, J. ARTHUR HARRIS and ROXANA H. VIVIAN, 635
Alfalfa Breeding, Physiological Correlations and Climatic Reactions in, GEO. F. FREEMAN, 356
Allelomorphism, Multiple, W. E. CASTLE, 383
Allelomorphs, Multiple, in Mice, T. H. MORGAN, 449; and Close Linkage, The Theoretical Distinction between, T. H. MORGAN, 502; W. E. CASTLE, 503
ALLEN, GLOVER M., Pattern Development in Mammals and Birds, 385, 467, 550
Analysis of a Case of Continuous Variation in *Drosophila* by a Study of its Linkage Relations, JOHN S. DEXTER, 712
Animals, and Plants, Sessile and Motile, Comparison of Responses of, VICTOR E. SHELFORD, 641
Ants, Gynandromorphous, described during the Decade 1903-1913, WILLIAM MORTON WHEELER, 49
Apple, A Study of Variation in the, W. J. YOUNG, 595
Apterous *Drosophila* and its Genetic Behavior, CHARLES W. METZ, 675
Arachnoidea, The Origin of X Capsella *Bursa-pastoris*, HENRI HUS, 193
BABCOCK, H. L., The Meadow Jumping Mouse (*Zapus Hudsonius*) especially regarding Hibernation, 485
Behavior, Genetic, An Apterous *Drosophila* and its, CHARLES W. METZ, 675
BESSEY, CHARLES E., A Study of Desert Vegetation, 639
Biology of the Thysanoptera, A. FRANKLIN SHULL, 161, 236
Biometrics, RAYMOND PEARL, 505
Birds, and Mammals, Barriers to Distribution, JOSEPH GRINNELL, 248; Pattern Development in, GLOVER M. ALLEN, 385, 467, 550
Breeding, Experiments with Grasshoppers, Nabour's, JOHN S. DEXTER, 317; Alfalfa, Physiolog- ical Correlations and Climatic Reactions in, GEO. F. FREEMAN, 356
BRIDGES, CALVIN B., The Chromosome Hypothesis of Linkage applied to Cases in Sweet Peas and *Primula*, 524
Bristles, Heredity of, in the Common Green-bottle Fly, PHINEAS W. WHITING, 339
British Islands, The Endemic Mammals of the, T. D. A. COCKERELL, 177
Calf, Double-headed, The Osteology of, A. M. REESE, 701
Capsella *Bursa-pastoris* arachnoidea, The Origin of X, HENRI HUS, 193
CASE, E. C., Restoration of *Edaphosaurus cruciger* Cope, 117
CASTLE, W. E., Some New Varieties of Rats and Guinea-pigs and their relation to Problems of Color Inheritance, 65; Yellow Varieties of Rats, 254; Nabour's Grasshoppers, Multiple Allelomorphism, Linkage and Misleading Terminologies in Genetics, 383; The Theoretical Distinction between Multiple Allelomorphs and Close Linkage, 503
Castle and Phillips on the Variability of Genes, The Bearing of the Selection Experiments of, HERMANN J. MULLER, 567
CHANDLER, ASA C., The Effect of Extent of Distribution on Speciation, 129
Chromosome Hypothesis of Linkage applied to Cases in Sweet Peas and *Primula*, CALVIN B. BRIDGES, 524
Citrus, Hybrids, Swingle on Variation in F_1 , and the Theory of Zygotaxis, ORLAND E. WHITE, 185; Dr. Swingle's Experiments with, another Hypothesis to account for, A. C. and A. L. HAGEDOORN, 446
Climatic Reactions in Alfalfa Breeding, GEO. F. FREEMAN, 356
COCKERELL, T. D. A., The Endemic Mammals of the British Islands, 177

COLLINS, G. N. and J. H. KEMPTON, Inheritance of Endosperm Texture in Sweet \times Waxy Hybrids of Maize, 584

Color Inheritance, Some New Varieties of Rats and Guinea-pigs, and their Relation to Problems of, W. E. CASTLE, 65

COOK, O. F., Terms relating to Generic Types, 308

Correlation, and Variation in the Mean Age at Marriage of Men and Women, J. ARTHUR HARRIS and ROXANA H. VIVIAN, 635

Correlations, Physiological, and Climatic Reactions in Alfalfa Breeding, GEO. F. FREEMAN, 356

Correspondence and Shorter Articles, 57, 122, 177, 248, 308, 383, 446, 491, 567, 635, 693, 759

DAVIS, BRADLEY MOORE, Stomps's *Oenothera biennis* L., 498

Desert Vegetation, A Study of, CHARLES E. BESSEY, 639

DEXTER, JOHN S., Nabours's Breeding Experiments with Grasshoppers, 317; The Analysis of a Case of Continuous Variation in *Drosophila* by a Study of its Linkage Relations, 712

Differential Mortality with Respect to Seed Weight occurring in Field Cultures of *Pisum sativum*, J. ARTHUR HARRIS, 83

Discontinuity in Variation, Galton and, R. RUGGLES GATES, 697

Distribution, The Effect of Extent of, on Speciation, ASA C. CHANDLER, 129; Barriers to, as regards Birds and Mammals, JOSEPH GRINNELL, 248; A Study of Factors governing, PHINEAS E. WHITING, 339

"Dominant" and "Recessive" Spotting in Mice, C. C. LITTLE, 74

Drosophila, The Reduplication Hypothesis as applied to, A. H. STURTEVANT, 535; An Apterous, CHARLES W. METZ, 675; The Failure of Ether to produce Mutations in, T. H. MORGAN, 705; Analysis of a Case of Continuous Variation in, its Linkage Relations, JOHN S. DEXTER, 712

Duplicate Genes, SEWALL WRIGHT, 638

EAST, E. M., and H. K. HAYES, A Genetic Analysis of the Changes produced by Selection in Experiments with Tobacco, 5

Ectoparasites of Mammals, VERNON LYMAN KELLOGG, 257

Edaphosaurus *cruciger* Cope, Restoration of, E. C. CASE, 117

EMERSON, R. A., The Inheritance of a Recurring Somatic Variation in Variegated Ears of Maize, 87

Endemic Mammals of the British Islands, T. D. A. COCKERELL, 177

Endosperm Texture in Sweet \times Waxy Hybrids of Maize, Inheritance of, G. N. COLLINS and J. H. KEMPTON, 584

Environmental Work, Humidity—a Neglected Factor, FRANK E. LUTZ, 122

Errors, Probable, A Short-cut in the Computation of Certain, HOWARD B. FROST, 696

Ether, The Failure of, to produce Mutations in *Drosophila*, T. H. MORGAN, 705

Evolution, and Taxonomy, X, 369

FISH, H. D., On the Progressive Increase of Homozygosis Brother \times Sister Matings, 758

Fluctuations, Mendelian, G. UDNY YULE, 764

Fly, the Common Green-bottle, Heredity of Bristles in, PHINEAS W. WHITING, 339

Formulae for the Results of Inbreeding, H. S. JENNINGS, 693

FREEMAN, GEO. F., Physiological Correlations and Climatic Reactions in Alfalfa Breeding, 356

FROST, HOWARD B., A Short-cut in the Computation of Certain Probable Errors, 696

GATES, R. RUGGLES, Galton and Discontinuity in Variation, 697

Generic Types, Terms relating to, O. F. COOK, 308

Genes, The Bearing of the Selection Experiments of Castle and Phillips on the Variability of, HERMANN J. MULLER, 567; Duplicate, SEWALL WRIGHT, 638

Genetic, Analysis of the Changes produced by Selection in Experiments with Tobacco, E. M. EAST and H. K. HAYES, 5; Behavior of an Apterous *Drosophila*, CHARLES W. METZ, 675

Genetics, Misleading Terminologies in, W. E. CASTLE, 383

GEROULD, JOHN H., Species-building by Hybridization and Mutation, 321

Grasshoppers, Nabours's Breeding Experiments with, JOHN S. DEXTER, 317

Gregory's Tetraploid Primulas, A New Mode of Segregation in, HERMANN J. MULLER, 508

GRINNELL, JOSEPH, Barriers to Distribution as regards Birds and Mammals, 248

Guinea-pigs, and Rats, Some New Varieties and their Relation to Problems of Color Inheritance, W. E. CASTLE, 65

GULICK, JOHN T., Isolation and Selection allied in Principle, 63

Gynandromorphous Ants, described during the Decade 1903-1913, WILLIAM MORTON WHEELER, 49

HAGEDOORN, A. C. and A. L., Another Hypothesis to account for Dr. Swingle's Experiments with Citrus, 446

HAGEDOORN, A. L., Repulsion in Mice, 699

HARRIS, J. ARTHUR, On Differential Mortality with respect to Seed Weight occurring in Field Cultures of *Pisum sativum*, 83; and ROXANA H. VIVIAN, Variation and Correlation in the Mean Age at Marriage of Men and Women, 635

HAYES, H. K., and E. M. EAST, A Genetic Analysis of the Changes produced by Selection in Experiments with Tobacco, 5

Heredity, and "The Influence of Monarchs," V. L. K., 255; of Bristles in the Common Green-bottle Fly, PHINEAS W. WHITING, 339

Hibernation, Notes on the Meadow Jumping Mouse, L. H. BABCOCK, 485

Homozygosis Brother-Sister Matings, The Progressive Increase of, H. D. FISH, 758

Humidity—a Neglected Factor in Environmental Work, FRANK E. LUTZ, 122

HUS, HENRI, The Origin of X Capsella Bursa-Pastoris Arachnoidea, 193

HUTCHESON, T. B., Thirteen Years of Wheat Selection, 459

Hybridization and Mutation, Species-building by, JOHN H. GEROULD, 321

Inbreeding, a Mendelian Population, RAYMOND PEARL, 57; Notes on,

RAYMOND PEARL, 491; and Relationship Coefficients, RAYMOND PEARL, 513; Formulae for the Results of, H. S. JENNINGS, 693

Inheritance, Color, Some New Varieties of Rats and Guinea-pigs and their Relation to Problems of, W. E. CASTLE, 65; of a Recurring Somatic Variation in Variegated Ears of Maize, R. A. EMERSON, 87; Sex-limited and Sex-linked, T. H. MORGAN, 577; of Endosperm Texture in Sweet \times Waxy Hybrids of Maize, G. N. COLLINS and J. H. KEMPTON, 584

Internal Relations of Terrestrial Associations, ARTHUR G. VESTAL, 413

Isolation and Selection allied in Principle, JOHN T. GULICK, 63

JENNINGS, H. S., Formulae for the Results of Inbreeding, 693

K., V. L., Woods on Heredity and "The Influence of Monarchs," 255

KELLOGG, VERNON LYMAN, Ectoparasites of Mammals, 257

KEMPTON, J. H. and G. N. COLLINS, Inheritance of Endosperm Texture in Sweet \times Waxy Hybrids of Maize, 584

Linkage, in the Silkworm Moth, A. H. STURTEVANT, 315; and Misleading Terminologies in Genetics, W. E. CASTLE, 383; Close, and Multiple Allelomorphs, T. H. MORGAN, 512; W. E. CASTLE, 503; Chromosome Hypothesis of, applied to Cases in Sweet Peas and Primula, CALVIN B. BRIDGES, 524; Relations, Analysis of a Case of Continuous Variation in *Drosophila* by a Study of its, JOHN S. DEXTER, 711

Literature and Notes, 185, 255, 315, 505, 639, 762

LITTLE, C. C., "Dominant" and "Recessive" Spotting in Mice, 74

Lucilia sericata Meig., the Common Green-bottle Fly, Heredity of Bristles in, PHINEAS W. WHITING, 339

LUTZ, FRANK E., Humidity—a Neglected Factor in Environmental Work, 122

Maize, The Inheritance of a Recurring Somatic Variation in Variegated Ears of, R. A. EMERSON,

87; Inheritance of Endosperm Texture in Sweet \times Waxy Hybrids of, G. N. COLLINS and J. H. KEMPTON, 584

Mammals, The Endemic of the British Islands, T. D. A. COCKERELL, 177; and Birds, Barriers to Distribution, JOSEPH GRINNELL, 248; Ectoparasites of, VERNON LYMAN KELLOGG, 257; and Birds, Pattern Development in, GLOVER M. ALLEN, 385, 467, 550

Marriage of Men and Women, Variation and Correlation in the Mean Age at, J. ARTHUR HARRIS and ROXANA H. VIVIAN, 635

Matings, Homozygosis Brother \times Sister, The Progressive Increase of, H. D. FISH, 759

Meadow Jumping Mouse (*Zapus Hudsonius*) especially regarding Hibernation, H. L. BABCOCK, 485

Mendelian Population, On the Results of inbreeding a, RAYMOND PEARL, 57; Fluctuations, G. UDNY YULE, 762

METZ, CHARLES W., An Apterous *Drosophila* and its Genetic Behavior, 675

Mice, "Dominant" and "Recessive," Spotting in, C. C. LITTLE, 74; Multiple Allelomorphs in, T. H. MORGAN, 449; Repulsion in, A. L. HAGEDOORN, 699

"Monarchs, The Influence of," and Heredity, V. L. K., 255

MORGAN, T. H., Multiple Allelomorphs in Mice, 449; The Theoretical Distinction between Multiple Allelomorphs and Close Linkage, 502; Sex-limited and Sex-linked Inheritance, 577; The Failure of Ether to produce Mutations in, 705

Mortality, Differential with respect to Seed Weight occurring in Field Cultures of *Pisum sativum*, J. ARTHUR HARRIS, 83

Moth, Silkworm, Linkage in the, A. H. STURTEVANT, 315

Motile and Sessile Plants and Animals, A comparison of the Responses of, VICTOR E. SHELFORD, 641

Mouse, Meadow Jumping (*Zapus Hudsonius*), especially regarding Hibernation, H. L. BABCOCK, 485

MULLER, HERMANN J., A New Mode of Segregation in Gregory's Tetraploid Primulas, 508; The Bearing of the Selection Experiments of Castle and Phillips on the Variability of Genes, 567

Multiple, Allelomorphism, W. E. CASTLE, 383; Allelomorphs in Mice, T. H. MORGAN, 449; Allelomorphs and Close Linkage, T. H. MORGAN, 502; W. E. CASTLE, 503

Mutation, and Hybridization, Species-building by, JOHN H. GEROULD, 321

Mutations, Parallel, in *Oenothera biennis* L., THEO. J. STOMPS, 494; BRADLEY M. DAVIS, 498; in *Drosophila*, The Failure of Ether to Produce, T. H. MORGAN, 705

Nabours's, Breeding Experiments with Grasshoppers, JOHN S. DEXTER, 317; Grasshoppers, W. E. CASTLE, 383

Notes and Literature, 185, 255, 315, 505, 639, 762

Oenothera biennis L., Parallel Mutations in, THEO. J. STOMPS, 494; BRADLEY M. DAVIS, 498

Osteology of a Double-headed Calf, A. M. REESE, 701

Pattern Development in Mammals and Birds, GLOVER M. ALLEN, 385, 467, 550

PEARL, RAYMOND, On the Results of Inbreeding a Mendelian Population, 57; Studies on Inbreeding, 491; Biometrics. 505: Inbreeding and Relationship Coefficients, 513

Phillips, and Castle, The Bearing of Selection Experiments on the Variability of Genes, HERMANN J. MULLER, 567

Physiological Correlations and Climatic Reactions in Alfalfa Breeding, GEO. F. FREEMAN, 356

Pisum sativum, Differential Mortality with Respect to Seed Weight occurring in Field Cultures of, J. ARTHUR HARRIS, 83

Plants and Animals, Sessile and Motile, A Comparison of the Responses of, VICTOR E. SHELFORD, 641

Primulas, Tetraploid, Gregory's, A New Mode of Segregation in, HERMANN J. MULLER, 508

Rats and Guinea-pigs, Some New Varieties of, and their relation to Problems of Color Inheritance, W. E. CASTLE, 65; Yellow Varieties of, W. E. CASTLE, 254

"Recessive," and "Dominant,"

Spotting in Mice, C. C. LITTLE, 74
 Reduplication Hypothesis as applied to *Drosophila*, A. H. STURTEVANT, 535
 REESE, A. M., The Osteology of a Double-headed Calf, 701
 Regeneration, Variation and Correlation in Thyone, JOHN W. SCOTT, 280
 Repulsion in Mice, A. L. HAGEDOORN, 699
 Responses of Plants and Animals, Sessile and Motile, A Comparison of the, VICTOR E. SHELFORD, 641
 Restoration of *Edaphosaurus cruciger* Cope, E. C. CASE, 117
 SCOTT, JOHN W., Regeneration, Variation and Correlation in Thyone, 280
 Seed Weight occurring in Field Cultures of *Pisum sativum*, Differential Mortality with Respect to, J. ARTHUR HARRIS, 83
 Segregation, A New Mode of, in Gregory's Tetraploid Primulas, HERMANN J. MULLER, 508
 Selection, in Experiments with Tobacco, Genetic Analysis of the Changes, E. M. EAST and H. K. HAYES, 5; and Isolation, allied in Principle, JOHN T. GULICK, 63; Wheat, Thirteen Years of, T. B. HUTCHESON, 459; Experiments of Castle and Phillips, bearing on the Variability of Genes, HERMANN J. MULLER, 567
 Sessile and Motile Plants and Animals, A Comparison of the Responses of, VICTOR E. SHELFORD, 641
 Sex-limited and Sex-linked Inheritance, T. H. MORGAN, 577
 SHELFORD, VICTOR E., A Comparison of the Responses of Sessile and Motile Plants and Animals, 641
 Short-cut in the Computation of Certain Probable Errors, HOWARD B. FROST, 696
 Shorter Articles and Correspondence, 57, 122, 177, 248, 308, 383, 446, 491, 567, 635, 693, 759
 SHULL, A. FRANKLIN, Biology of the Thysanoptera, 161, 236
 Silkworm Moth, Linkage in the, A. H. STURTEVANT, 315
 Speciation, The Effect of Extent of Distribution on, ASA C. CHANDLER, 129
 Species-building by Hybridization and Mutation, JOHN H. GEROULD, 321
 Spotting in Mice, "Dominant" and "Recessive," C. C. LITTLE, 74
 STOMPS, THEO. J., Parallel Mutations in *Oenothera biennis* L., 494
 Stomps's *Oenothera biennis* L., BRADLEY M. DAVIS, 498
 STURTEVANT, A. H., Linkage in the Silkworm Moth, 315; The Reduplication Hypothesis as applied to *Drosophila*, 535
 Sweet Peas and Primula, Chromosome Hypothesis of Linkage applied to Cases in, CALVIN B. BRIDGES, 524
 Swingle on Variation in *F₁*, Citrus Hybrids and the Theory of Zygotaxis, ORLAND E. WHITE, 185
 Swingle's Experiments with Citrus, Another Hypothesis to account for, A. C. and A. L. HAGEDOORN, 446
 Taxonomy and Evolution, X, 369
 Terrestrial Associations, Internal Relations of, ARTHUR G. VESTAL, 413
 Thyone, Regeneration, Variation and Correlation in, JOHN W. SCOTT, 280
 Thysanoptera, Biology of the, A. FRANKLIN SHULL, 161, 236
 Tobacco, A Genetic Analysis of the Changes produced by Selection in Experiments with, E. M. EAST and H. K. HAYES, 5
 Types, Generic, Terms relating to, O. F. COOK, 308
 Variability of Genes, The Bearing of the Selection Experiments of Castle and Phillips on the, HERMANN J. MULLER, 567
 Variation, in Variegated Ears of Maize, The Inheritance of a Recurring Somatic, R. A. EMERSON, 87; in *F₁* Citrus Hybrids and the Theory of Zygotaxis, Swingle on, ORLAND E. WHITE, 185; Regeneration and Correlation in Thyone, JOHN W. SCOTT, 280; in the Apple, W. J. YOUNG, 595; and Correlation in the Mean Age at Marriage of Men and Women, J. ARTHUR HARRIS and ROXANA H. VIVIAN, 635; Galton and Discontinuity in, R. RUGGLES GATES, 697; Continuous, Analysis of a Case in *Drosophila* by a Study of

its Linkage Relations, JOHN S. DEXTER, 712

Vegetation, Desert, CHARLES E. BESSEY, 639

VESTAL, ARTHUR G., Internal Relations of Terrestrial Associations, 413

VIVIAN, ROXANA H., and J. ARTHUR HARRIS, Variation and Correlation in the Mean Age at Marriage of Men and Women, 635

Wheat Selection, Thirteen Years of, T. B. HUTCHESON, 459

WHEELER, WILLIAM MORTON, Gynandromorphous Ants described during the Decade 1903-1913, 49

WHITE, ORLAND E., Swingle on Variation in F_1 Citrus Hybrids and the Theory of Zygotaxis, 185

WHITING, PHINEAS W., Heredity of Bristles in the Common Green-bottle Fly, Study of Factors Governing Distribution, 339

Woods on Heredity and the "Influence of Monarchs," V. L. K., 255

WRIGHT, SEWALL, Duplicate Genes, 638

X, Taxonomy and Evolution, 369

X Capsella Bursa-pastoris arachnoidea, The Origin of, HENRI HUS, 193

Yellow Varieties of Rats, W. E. CASTLE, 254

YOUNG, W. J., A Study of Variation in the Apple, 595

Zygotaxis, Swingle on Variation in F_1 Citrus Hybrids and the Theory of, ORLAND E. WHITE, 185